## **AMENDMENTS TO THE CLAIMS**

Please amend Claims 1, 2, 4, 5, 6, 7, 11, and 13 as follows.

 (Currently Amended) A method for reducing power utilized by a processor comprising the steps of:

determining that a processor is transitioning from a computing mode to a mode [[is]] in which system clock to the processor is disabled, and

reducing core voltage to the processor to a value sufficient to maintain state during the mode in which system clock is disabled, wherein said value of the core voltage is not sufficient to maintain processing activity in said processor.

- Claim 2. (Currently Amended) A method as claimed in Claim 1 in which the step of determining that a processor is transitioning from a computing mode to a mode [[is]] in which system clock to the processor is disabled [[comprising]] comprises monitoring a stop clock signal.
- Claim 3. (Original) A method as claimed in Claim 1 in which the step of reducing core voltage to the processor to a value sufficient to maintain state during the state in which system clock is disabled comprises furnishing an input to reduce an output voltage provided by a voltage regulator furnishing core voltage to the processor.
- Claim 4. (Currently Amended) <u>A method for reducing power utilized by a processor comprising the steps of:</u>

determining that a processor is transitioning from a computing mode to a mode in which system clock to the processor is disabled, and

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reducing core voltage to the processor to a value sufficient to maintain state during the mode in which system clock is disabled by:

furnishing an input to reduce an output voltage provided by a voltage regulator furnishing core voltage to the processor, and

A method as claimed in Claim 3 in which the step of reducing core voltage to the processor to a value sufficient to maintain state during the state in which system clock is disabled further comprises

providing a feedback signal to the voltage regulator to reduce its output voltage below a specified output voltage.

Claim 5. (Currently Amended) <u>A method for reducing power utilized by a processor comprising the steps of:</u>

determining that a processor is transitioning from a computing mode to a mode in which system clock to the processor is disabled,

reducing core voltage to the processor to a value sufficient to maintain state

during the mode in which system clock is disabled, and

A method as claimed in Claim 1 further comprising the steps of

transferring operation of a voltage regulator furnishing core voltage in a mode in which power is dissipated during reductions in core voltage to a mode in which power is saved during a voltage transition when it is determined that a processor is transitioning from a computing mode to a mode is which system clock to the processor is disabled.

Claim 6. (Currently Amended) A method as claimed in Claim 5 further comprising the steps of returning the voltage regulator to its original mode of operation when the [[lower]] value of the core voltage sufficient to maintain state during the mode in which system clock is disabled is reached.

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Claim 7. (Currently Amended) A circuit for providing a regulated voltage to a processor comprising:

a voltage regulator having:

an output terminal providing a selectable voltage, and an input terminal for receiving signals indicating the selectable voltage level;

means for providing signals at the input terminal of the voltage regulator for selecting a voltage for operating the processor in a computing mode and a voltage of a level less than that for operating the processor in a computing mode, wherein the level less than that for operating the processor in a computing mode is sufficient to maintain state of the processor.

Claim 8. (Original) A circuit as claimed in Claim 7 in which the means for providing signals at the input terminal of the voltage regulator comprises means for accepting binary signals indicating different levels of voltage.

Claim 9. (Original) A circuit as claimed in Claim 7 in which the means for providing signals at the input terminal of the voltage regulator comprises: selection circuitry,

means for furnishing a plurality of signals at the input to the selection circuitry, and

means for controlling the selection by the selection circuitry.

Claim 10. (Original) A circuit as claimed in Claim 9 in which: the selection circuitry is a multiplexor, and

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the means for controlling the selection by the selection circuitry includes a control terminal for receiving signals indicating a system clock to the processor is being terminated.

Claim 11. (Currently Amended) <u>A circuit for providing a regulated voltage to a processor comprising:</u>

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a voltage regulator having:

an output terminal providing a selectable voltage, and
an input terminal for receiving signals indicating the selectable voltage
level:

means for providing signals at the input terminal of the voltage regulator for selecting a voltage for operating the processor in a computing mode and a voltage of a level less than that for operating the processor in a computing mode; and

A circuit as claimed in Claim 7 further comprising

means for reducing the selectable voltage below a level provided by the voltage regulator.

Claim 12. (Original) A circuit as claimed in Claim 11 in which the means for reducing the selectable voltage below a level provided by the voltage regulator comprises:

a voltage divider network joined between the output terminal and a voltage source furnishing a value higher than the selectable voltage, and a voltage regulator feedback circuit receiving a value from the voltage divider network.

Serial No. 09/694,433 Art Unit 2185 Examiner: Cao, Chun - 6 - TRAN-P059 Claim 13. (Currently Amended) A circuit for providing a regulated voltage to a processor comprising:

a voltage regulator having:

an output terminal providing a selectable voltage, and
an input terminal for receiving signals indicating the selectable voltage
level;

means for providing signals at the input terminal of the voltage regulator for selecting a voltage for operating the processor in a computing mode and a voltage of a level less than that for operating the processor in a computing mode;

A circuit as claimed in Claim 7 further comprising:

circuitry for conserving charge stored by the voltage regulator when the selectable voltage decreases, and

means for enabling the circuitry for conserving charge stored by the voltage regulator when the selectable voltage decreases.

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